

The diagram illustrates the circular plasmid vector pBR322, which is 11.6 kb in size. The plasmid contains several key elements:

- Phytoene Synthase Gene:** A dark-shaded segment on the right side of the plasmid, flanked by XhoI restriction sites.
- Tc^r Resistance Gene:** A small box labeled "Tc^r" located near the Phytoene Synthase gene.
- TMV RNA (+7866):** A site marked with a KpnI restriction site.
- TMV RNA (+1):** A site marked with a KpnI restriction site.
- 126K Fragment:** A large white segment on the left side of the plasmid.
- 183/54K Fragment:** A white segment on the left side of the plasmid.
- 30K Fragment:** A white segment on the left side of the plasmid.
- Restriction Sites:** BamHI, ClaI, and XhoI sites are indicated around the plasmid.
- SP6 Promoter:** Located at the bottom of the diagram, flanking a 68 nt spacer and a 126K fragment.

FIGURE 1

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PDS-Nb	ATAAACCCCTGACGAGCTTTTCGATGCAGTGCATCTTGATTGCTTTGAACAG	50
PDS-Le	ATAAACCCCTGACGAACTTTCAATGCAGTGCATTTTGATCGCATTGAACAG	50
PDS-Nb	ATTTCTTCAGGAGAAACATGGTTCAAAAATGGCCTTTTGTAGATGGTAACC	100
PDS-Le	GTTTCTTCAGGAGAAACATGGTTCAAAAATGGCCTTTTGTAGATGGTAATC	100
PDS-Nb	CTCCTGAGAGACTTTGTCATGCCGATTGTGGAACATATTGAGTCAAAAGGT	150
PDS-Le	CTCCTGAGAGACTTTGTCATGCCGATTGTTGAACACATTGAGTCAAAAGGT	150
PDS-Nb	GGCCAAGTCAGACTAACTCACGAATAAAAAAGATCGAGCTGAATGAGGA	200
PDS-Le	GGCCAAGTCAGACTGAACTCACGAATAAAAAAGATTGAGCTGAATGAGGA	200
PDS-Nb	TGGAAGTGTCAAATGTTTTATACAGAATAATGGCAGTACAATTAAAGGAG	250
PDS-Le	TGGAAGTGTCAAGAGTTTTATACTGAGTGACGGTAGTGCAATCGAGGGAG	250
PDS-Nb	ATGCTTTTGTGTTTGCCACTCCAGTGGATATCTTGAAGCTTCTTTTGCCT	300
PDS-Le	ATGCTTTTGTGTTTGCCGCTCCAGTGGATATTTTCAAGCTTCTATTGCCT	300
PDS-Nb	GAAGACTGGAAAGAGATCCCATATTTCCAAAAGTTGGAGAAGCTAGTGGG	350
PDS-Le	GAAGACTGGAAAGAGATTCCCATATTTCCAAAAGTTGGAGAAGTTAGTCGG	350
PDS-Nb	AGTTCCTGTGATAAATGTCCATATATGGTT	380
PDS-Le	AGTACCTGTGATAAATGTACATATATGGTT	380

FIGURE 2

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